

Air Quality and Dust Monitoring Monthly Report – March 2024

Warwick District Council



Department for Transport

High Speed Two (HS2) Limited has been tasked by the Department for Transport (DfT) with managing the delivery of a new national high speed rail network. It is a non-departmental public body wholly owned by the DfT.

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A report prepared by EWCs and MWCCs on behalf of HS2 Ltd.

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Monthly Summary

- 1.1.1 This Summary Report is published in fulfilment of commitments detailed in the High Speed Rail (London-West Midlands) Environmental Minimum Requirements, Annex 1: Code of Construction Practice, for the nominated undertaker to present the results of air quality and dust monitoring undertaken within Warwick District Council (WDC) during March 2024.
- 1.1.2 Figures 1 to Figure 3 in Appendix A present the current worksites together with the dust monitoring locations.
- 1.1.3 This summary should be read in conjunction with the overview monitoring report monthly available from www.gov.uk/government/collections/monitoring-the-environmental-effects-of-hs2, which highlights: the applicable standards and guidance, as well as the air quality and dust monitoring methodologies to be implemented by nominated undertakers throughout construction.
- 1.1.4 The current worksites, as presented in Appendix A, Figures 1 to 3, include:

Sublot 2A2

Fosse Way Main

- Operation of Roadhead at Fosse Way Compound;
- Crane platforms, drainage and haul road construction to Fosse Way Overbridge;
- Pile breakdown at Fosse Way Overbridge;
- Reinforcement and concrete to piers and abutments bases at Fosse Way Overbridge;
- Diversion of Offchurch Greenway and footpath W192;
- Maintenance of Fosse way crane platforms and access roads (Earthworks); and
- Excavation of Greenway Green Bridge for temp works access and platforms.

Stoneleigh Park

- Operational haul road;
- Piling;
- Construction of pile caps;
- North Accommodation Over Bridge Concrete Kerb in-situ Stitch Pour; and
- Site Maintenance.

Cublington Compound Worksite

- Excavate working platform;
- Maintain haul roads;
- Maintain V-ditches; and
- Pile breaking.

Burton Green Tunnel (Sublot 2B2)

- Tunnel excavation/diggers.

Welsh Road Underbridge Satellite Compound (Sublot 2AS)

- Welsh Road UB steel install and formwork to deck;
- Welsh Road Underbridge Concrete pour to deck;
- Earthwork to Welsh Road realignment;
- Stone platform construction north and south of canal;
- Sheet piled cofferdam installation;
- Bored piling to south side of canal;
- Installation of bentonite farm to north side of canal; and
- Drainage installation at Grand Union Canal embankment.

Valley Fields Offchurch Cutting (Sublot 2AS)

- Severn Trent - backfill works and pipe install for water main diversion;
- Bulk Earthworks to River Leam Embankment area;
- Install permanent drainage pipes and manholes at River Leam Embankment;
- Technical backfill to piers and abutments at Hunningham Road Overbridge;
- Complete back blinding to Wingwalls at Hunningham Road Overbridge; and
- Trenching works to new sewer (Severn Trent) north of Hunn Road.

A429 Kenilworth Road Overbridge (Sublot 2B1)

- Earthworks;
- Moving stockpiles;
- Excavators; and
- Articulated Dump Trucks (ADTs).

1.1.5 Nine (9) dust monitors are installed around these worksites, where works are underway. These sites returned a low to medium dust risk rating.

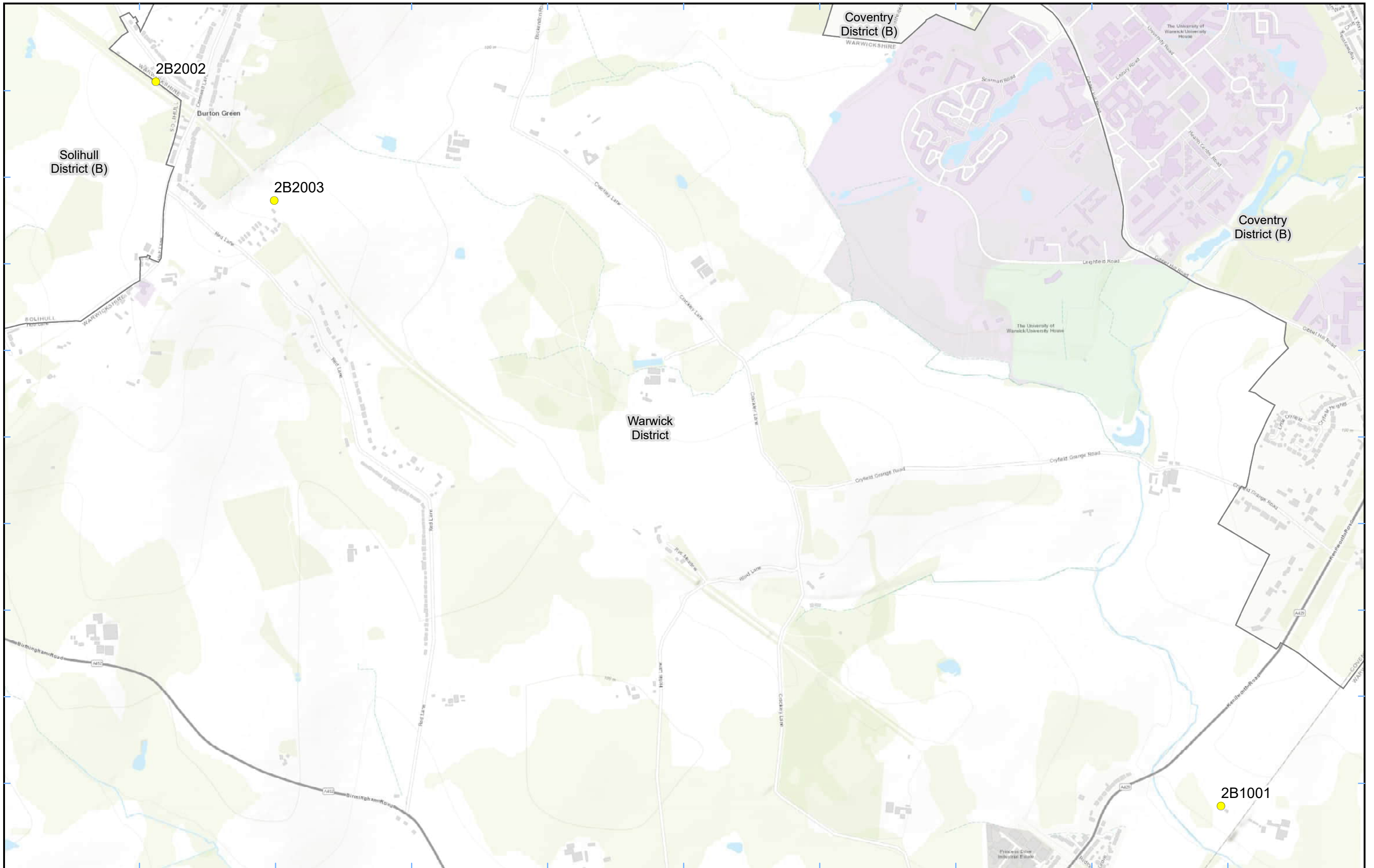
1.1.6 Dust monitoring locations and results are presented in Appendix B, Table 1, together with line charts of monthly data from each dust monitor, presented in Figure 4. All continuous dust monitoring is undertaken using indicative monitors. Despite being Environment Agency (MCERTS) certified, indicative monitors carry a higher level of uncertainty than reference monitors, and therefore cannot be strictly compared with Air Quality Standards for human health and the environment. The purpose of the monitoring undertaken is to ensure the effectiveness of the on-site mitigation.

1.1.7 The trigger level for PM₁₀ concentrations of 190 µg/m³, over a 1-hour period, in accordance with the updated guidance document '*Guidance on Monitoring in the Vicinity of Demolition and Construction Sites – (October 2018)*' has been applied.

- 1.1.8 Details of the trigger alert investigations and remediations are presented in Appendix B, Table 2.
- 1.1.9 Data capture was below 90% for monitor 2B2002 due to power supply issues (poor solar conditions). A battery swap out was performed on 18th March 2024.
- 1.1.10 There were no (0) complaints received during the reporting period (March 2024).

Appendix A – Worksites and Monitoring Locations

Figures 1-3: Worksites and Monitoring Locations within WDC



Legend
 Dust
 District Borough Unitary Boundaries

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Map Number
 Map Name
**Monitoring Locations
 In WDC (Sheet 1)**
 Warwick District Council

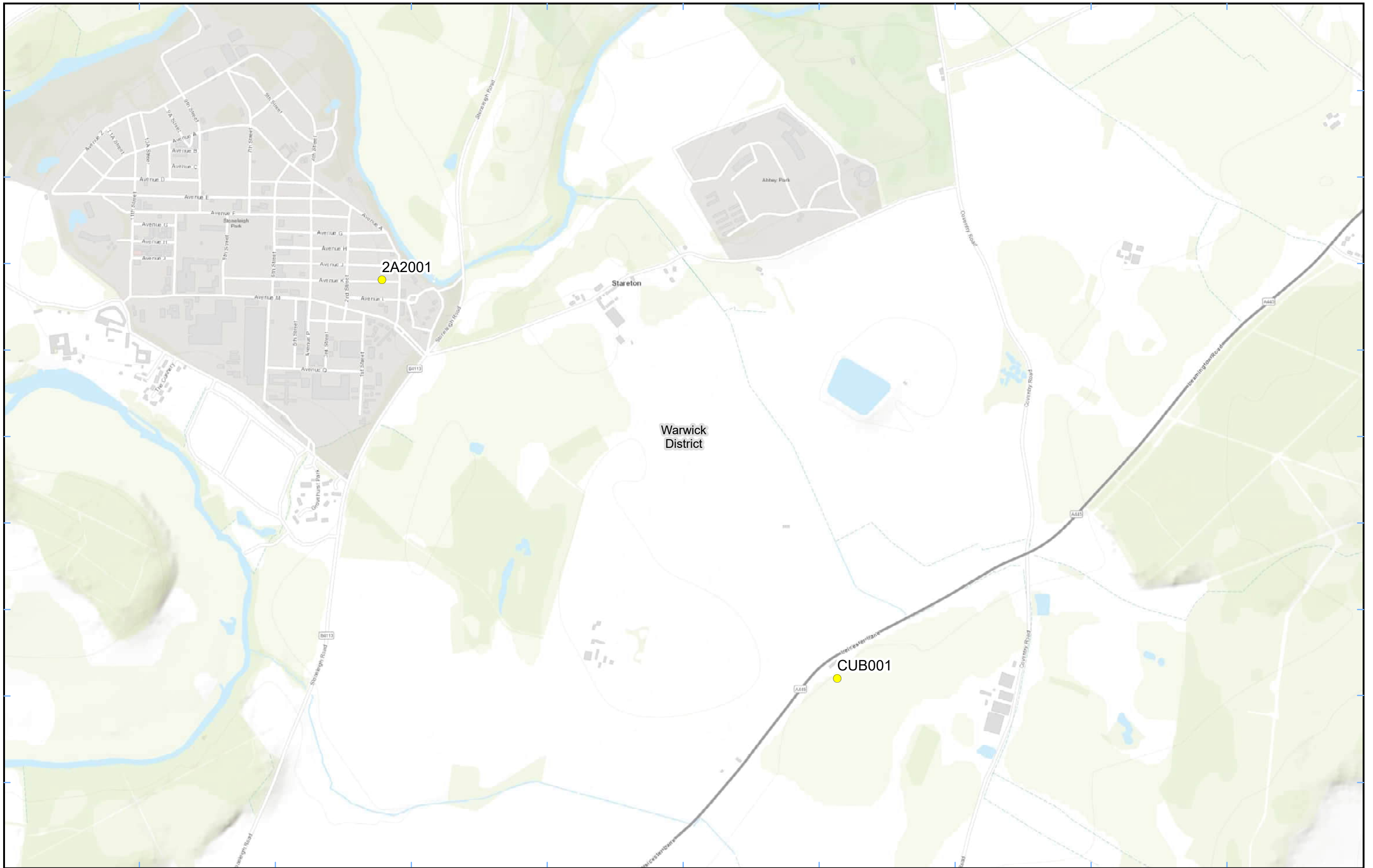
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Legend
 Dust
 District Borough Unitary Boundaries

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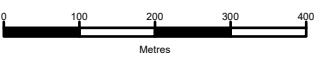
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**Monitoring Locations
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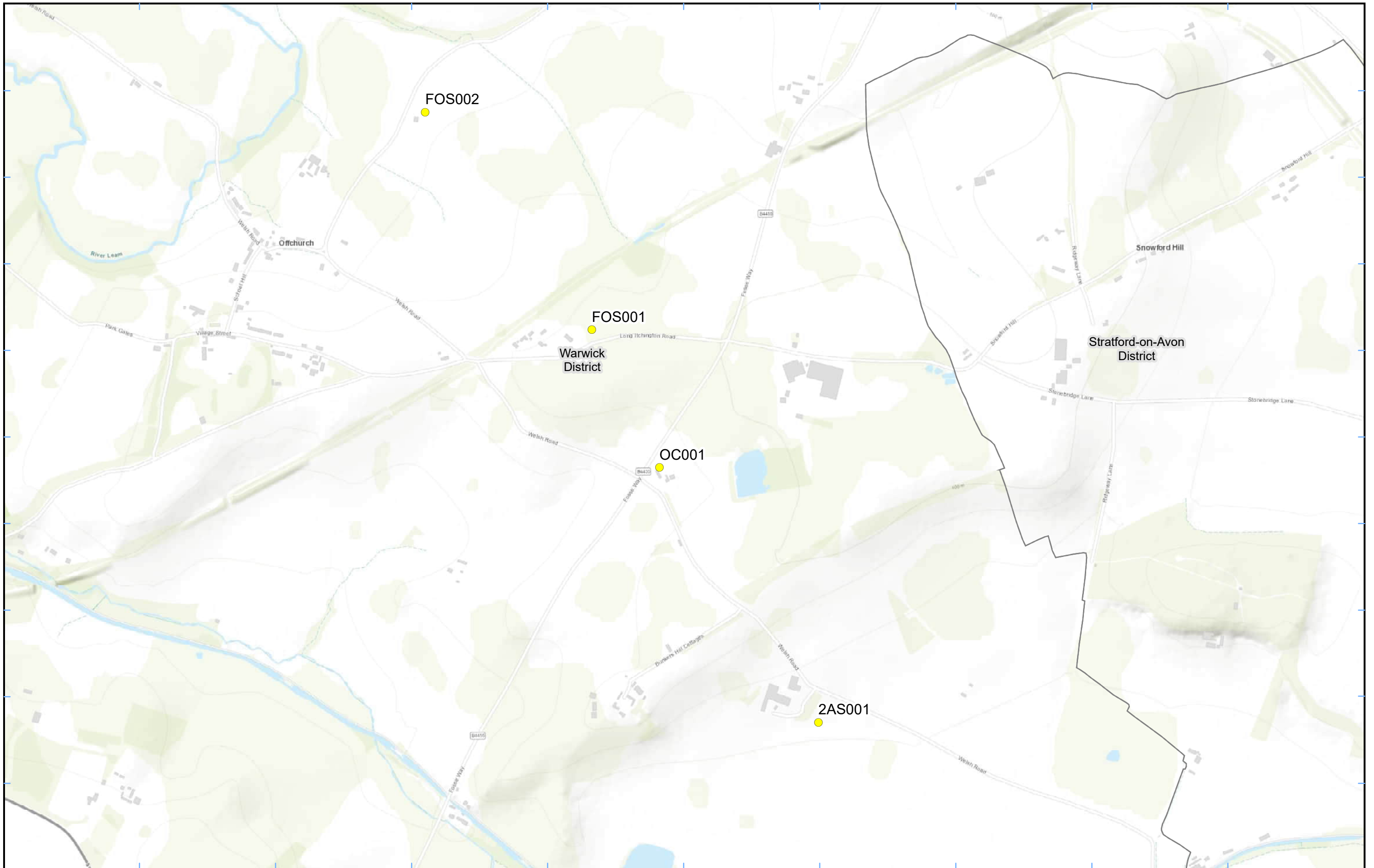
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Legend
 ● Dust
 □ District Borough Unitary Boundaries

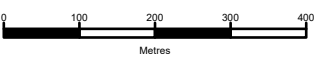
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Map Number
 Map Name
**Monitoring Locations
 In WDC (Sheet 3)**
 Warwick District Council


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 Metres

Doc Number: _____ Date: 06/07/23

Appendix B – Dust Monitoring Results

Table 1: Dust Monitoring Locations and Results

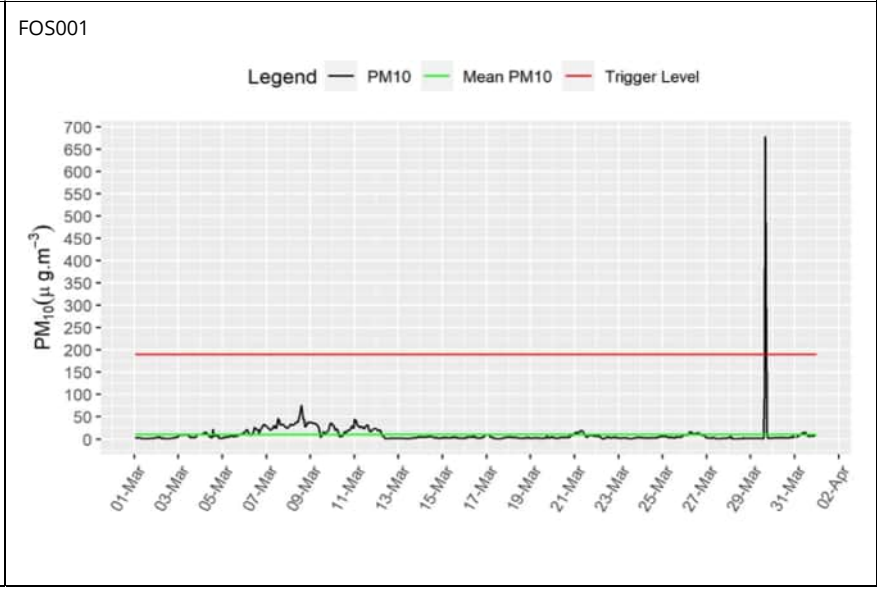
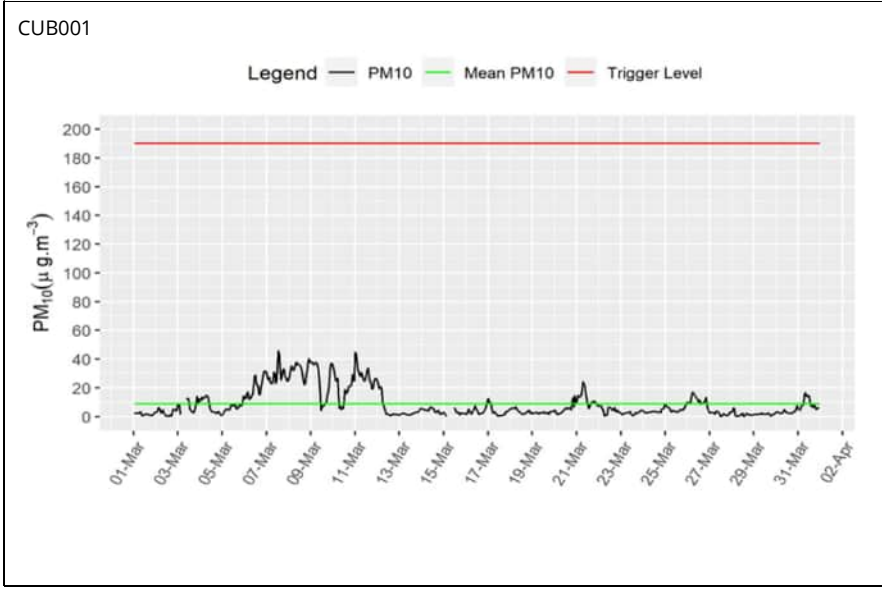
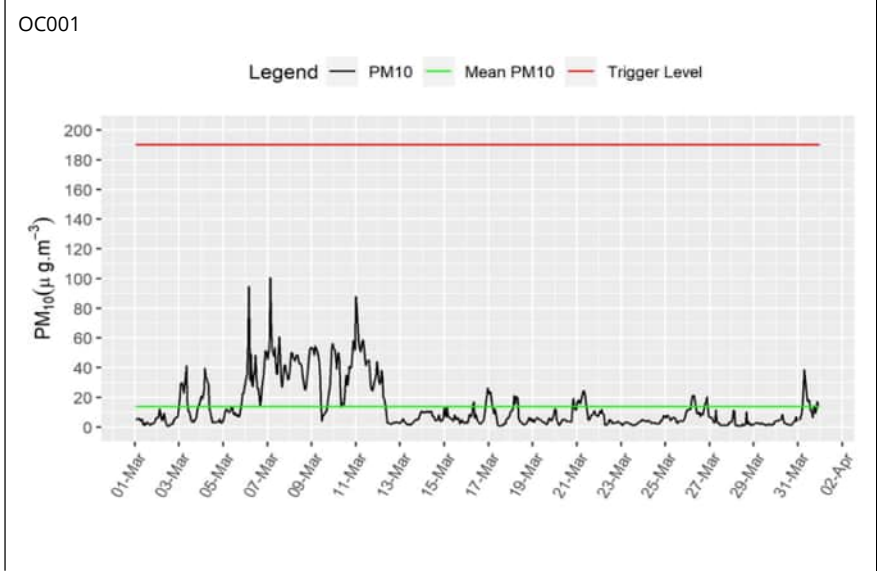
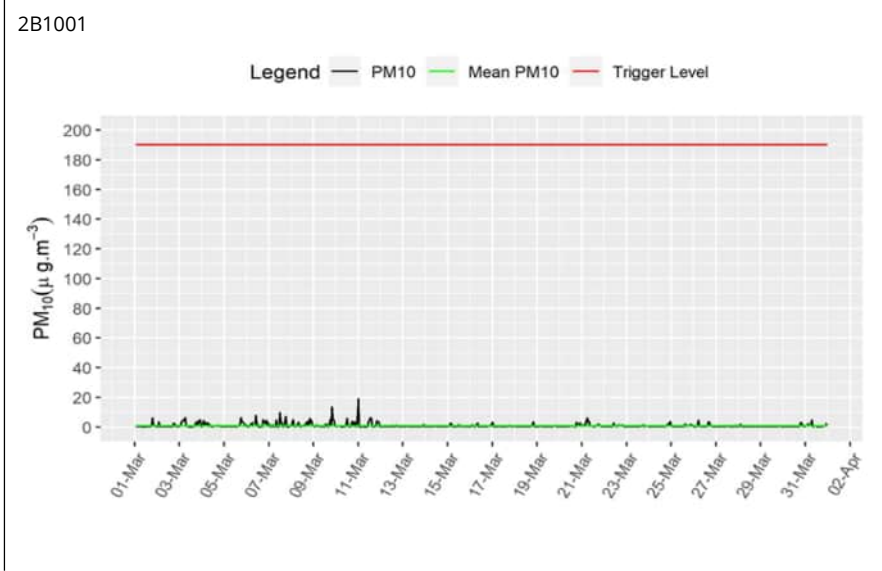
Monitoring site ID	Coordinates (X,Y)	Location description	Dust risk rating for site	Monitoring site active during period	Change to site since previous period report	Mean 1-hour PM ₁₀ concentration (µg/m ³)	Minimum 1-hour PM ₁₀ concentration (µg/m ³)	Maximum 1-hour PM ₁₀ concentration (µg/m ³)	Number of 1-hour periods exceeding trigger level of 190 µg/m ³	Data capture (%)
2A2001	432798, 271434	East Lodge, Stoneleigh Park	M	Yes	No	8.6	0.1	44.7	0	99.6
2B2002	426772, 276017	Sublot 2B2, at nearest sensitive receptor on Hodgetts Lane	M	Yes	No	9.6	0.0	49.4	0	80.0
2B2003	427151, 275637	Sublot 2B2, at Broadwell Woods Caravan Park	M	Yes	No	2.6	0.0	325.4	1	99.3
2B1001	430183, 273698	Sublot 2B1, at Brookview Farm, Millburn Grange	M	Yes	No	0.8	0.0	19.0	0	99.1
2AS001	437574, 264500	Sublot 2AS, at Welsh Road Farm	M	Yes	Yes	10.1	0.2	50.2	0	99.6
OC001	437111, 265242	Springhill Cottages, Offchurch Cutting	M	Yes	No	13.8	0.4	100.6	0	99.7
CUB001	434124, 270273	Sublot 2A2, at Furzon Hill Cottages	L	Yes	No	8.8	0.0	45.6	0	98.8
FOS001	436914, 265643	Fosse Way Compound, on Long Itchington Road	M	Yes	No	10.2	0.1	678.1	2	99.7
FOS002	436429, 266276	Valley Fields, Fosse Way Main	M	Yes	No	0.8	0.0	24.6	0	98.1

Table 2: Summary of exceedances during period (March 2024)

Monitoring Site ID	Period of trigger alert & Concentration recorded	Investigation	Outcomes / Resolution / Remedial measures implemented
2B2003	06/03/2024 04:01 – 05:00; 325.4 µg m ³	There were no site activities taking place between those hours of the morning.	n/a
FOS001	29/03/2024 15:01 – 16:00; 678.1 µg m ³ 16:01 – 17:00; 294.2 µg m ³	It was confirmed that these exceedances were not related to any HS2 site activity since site works were halted due to the Easter break.	n/a

Figure 4: Construction dust 1-hour mean indicative PM10 concentration for all dust monitors





FOS002

